a. 34 = 00100010 b. 5678 = 0001011000101110 c. 256 = 0000000100000000 d. 16 = 00010000 e. 8 = 00001000

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **a. 34** | | |  | **b. 5678** | | |  | **c. 256** | | |  | **d. 16** | | |  | **e. 8** | | |
| 34 | /2 | %2 |  | 5678 | /2 | %2 |  | 256 | /2 | %2 |  | 16 | /2 | %2 |  | 8 | /2 | %2 |
|  | 17 | 0 |  |  | 2839 | 0 |  |  | 128 | 0 |  |  | 8 | 0 |  |  | 4 | 0 |
|  | 8 | 1 |  |  | 1419 | 1 |  |  | 64 | 0 |  |  | 4 | 0 |  |  | 2 | 0 |
|  | 4 | 0 |  |  | 709 | 1 |  |  | 32 | 0 |  |  | 2 | 0 |  |  | 1 | 0 |
|  | 2 | 0 |  |  | 354 | 1 |  |  | 16 | 0 |  |  | 1 | 0 |  |  |  | 1 |
|  | 1 | 0 |  |  | 177 | 0 |  |  | 8 | 0 |  |  |  | 1 |  |  |  | 0 |
|  |  | 1 |  |  | 88 | 1 |  |  | 4 | 0 |  |  |  | 0 |  |  |  | 0 |
|  |  | 0 |  |  | 44 | 0 |  |  | 2 | 0 |  |  |  | 0 |  |  |  | 0 |
|  |  | 0 |  |  | 22 | 0 |  |  | 1 | 0 |  |  |  | 0 |  |  |  | 0 |
|  |  |  |  |  | 11 | 0 |  |  |  | 1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 5 | 1 |  |  |  | 0 |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 2 | 1 |  |  |  | 0 |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 1 | 0 |  |  |  | 0 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 1 |  |  |  | 0 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |  |  |  |  |  |